



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Air Drilling Specialist  
Oil & Gas Wells

**THORNTON AIR ROTARY, LLC**  
Office Phone: 620-879-2073

PO Box 449  
Caney, KS 67333

Date Started	1/6/2011
Date Completed	1/7/2011

Well No.	Operator	Lease	A.P.I.#	County	State
1Q-3	Layne Energy Operating	Zook	125-32023-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			3	31	14

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Billy	Oil	4	22.9' 8 5/8	1262	6 3/4

### Formation Record

0-6	DIRT	1026-1062	SHALE		
6-71	LIME	1062-1063	COAL		
71-300	LMY SHALE	1063-1078	SHALE		
300-340	SAND (DAMP)	1078-1080	LIME		
340-413	SANDY SHALE	1080-1082	SHALE		
413-416	LIME	1082-1083	COAL (CROWBERG)		
416-436	SHALE	1083-1124	SHALE		
436-560	LIME	1124-1125	COAL (MINERAL)		
560-590	SAND	1125-1165	SHALE		
590-658	LIME	1162	GAS TEST-4#, 1/4", MCF-18.5		
658-676	BLACK SHALE	1165-1166	COAL		
676-691	LIME	1166-1168	SHALE		
691-756	SHALE	1168-1174	SANDY SHALE		
756-773	LMY SHALE	1174-1181	SAND		
773-785	SAND	1181-1186	BLK SAND/OIL ODOR		
785-793	SANDY SHALE	1186-1200	SANDY SHALE		
793-876	SHALE	1200-1201	COAL (WEIR)		
876-877	COAL (MULBERRY)	1201-1221	SHALE		
877-883	SHALE	1221-1228	SAND		
883-909	LIME (PAWNEE)	1228-1262	SHALE		
909-911	SHALE	1262	TD		
911-914	LIME				
914-918	BLK SHALE (LEXINGTON)				
918-968	SHALE				
968-995	LIME (OSWEGO)				
995-1002	BLK SHALE (SUMMIT)				
1002-1012	LIME				
1012-1015	BLK SHALE				
1015-1016	COAL (MULKEY)				
1016-1026	LIME				

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# Well Report

## ZOOK 10-3

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**API Number:**

**Project Area:** SYCAMORE  
KS Montgomery  
31S - 14E - 3  
1115FNL - 500FEL

**AFE Number:**

**AFE Amount:** \$0.00

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<b>Activity Date</b>	<b>Activity Description</b>
<b>1/6/2011</b>	MIRU Thornton, drilled 11" hole 22.8' deep, RIH W/1 joint 8-5/8" surface casing. Mixed 4 sx type 1 cement, dumped down the backside. SDFN.
<b>1/7/2011</b>	TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1262', PULLING SAMPLES AND TESTING ZONES OF INTEREST, PULL BIT OFF BOTTOM, WASHED HOLE CLEAN MI OSAGE, PULLED OPEN HOLE LOG FROM TD TO SURFACE. See Driller's Log.
<b>1/12/2011</b>	MI RIH w/34 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION W/25 BBLS FRESH WATER, WASHED DOWN 35' PUMP 10 SKS GEL FLUSH, 5 BBLS WATER SPACER, 20 BBLS CAUSTIC SODA PRE FLUSH, 10 BBLS DYE WATER, MIXED 135 SKS THICKSET CEMENT W/8# KOL SEAL/SK 1/8# PHENO SEAL/SK 1/4% CFL-115, @13.4# 1 GAL. SHUT DOWN, WASH OUT PUMP AND LINES RELEASE PLUG, DISPLACE WITH 20 BBLS FRESH WATER FINAL PUMPING PRESSURE 700 PSI. BUMP PLUG TO 1100 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD. GOOD CEMENT RETURNS TO SURFACE, 42 BBLS SLURRY, 10 BBLS TO PIT. SD MOL.  CSG STRING: 34 JOINTS 4-1/2" FROM WESTERN DRILL LANDED CSG @ 1258.72' PBD - 1258.72' TD 1262



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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Thomas E. Wright, Chairman  
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

April 20, 2011

Victor H. Dyal  
Layne Energy Operating, LLC  
1900 SHAWNEE MISSION PKWY  
MISSION WOODS, KS 66205-2001

Re: ACO1  
API 15-125-32023-00-00  
ZOOK 1Q-3  
NE/4 Sec.03-31S-14E  
Montgomery County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Victor H. Dyal